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Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	10/768,565- Conf. #6338
				Filing Date	January 29, 2004
				First Named Inventor	Karla Weaver Quigley et al.
				Art Unit	3763
				Examiner Name	Theodore J. STIGELL
Sheet	1	of	5	Attorney Docket Number	3008069-7061812001

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	A30*	US-D357,735	04-25-1995	McPhee	
	A31*	US-3,113,586	12-10-1963	Edmark, Jr.	
	A32*	US-3,159,176	12-01-1964	Russell et al.	
	A33*	US-3,621,557	11-23-1971	Cushman et al.	
	A34*	US-,3673,612	07-04-1972	Merrill et al.	
	A35*	US-4,072,146	02-07-1978	Howes	
	A36*	US-4,142,525	03-06-1979	Binard et al.	
	A37*	US-4,405,316	09-20-1983	Mittleman	
	A38*	US-4,434,810	03-06-1984	Atkinson	
	A39*	US-4,468,224	11-12-1985	Enzmann et al.	
	A40*	US-4,543,087	09-09-1986	Sommercorn et al.	
	A41*	US-4,616,768	10-14-1986	Flier	
	A42*	US-4,673,393	06-16-1987	Suzuki et al.	
	A43*	US-4,681,572	07-21-1987	Tokarz et al.	
	A44*	US-4,552,553	11-12-1985	Schulte et al.	
	A45*	US-4,790,832	12-13-1988	Lopez	
	A46*	US-4,798,594	01-17-1989	Hillstead	
	A47*	US-4,801,297	01-31-1989	Mueller	
	A48*	US-4,944,726	07-31-1990	Hilal et al.	
	A49*	US-4,946,448	08-07-1990	Richmond	
	A50*	US-5,000,745	03-19-1991	Guest et al.	
	A51*	US-5,030,210	07-09-1991	Alchas et al.	
	A52*	US-5,098,405	03-24-1992	Peterson et al.	
	A53*	US-5,125,893	06-30-1992	Dryden	
	A54*	US-5,147,332	09-15-1992	Moorehead	
	A55*	US-5,149,327	09-22-1992	Oshiyama	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	B15	DE-20208420	10-31-2002	Diez Claudius		
	B16	EP-0930082	07-21-1999	Bard Inc. C.R..		
	B17	EP-1016431	07-05-2000	Michigan Transtech Corp.		
	B18	FR-2718969	10-27-1995	Balt Extrusion		

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	A56*	US-5,169,393	12-08-1992	Moorehead et al.	
	A57*	US-5,176,652	01-05-1993	Littrell	
	A58*	US-5,201,722	04-13-1993	Moorehead et al.	
	A59*	US-5,254,086	10-19-1993	Moorehead et al.	
	A60*	US-5,330,424	07-19-1994	Palmer et al.	
	A62*	US-5,336,203	08-09-1994	Goldhardt et al.	
	A63*	US-5,360,407	11-01-1994	Leonard et al.	
	A64*	US-5,370,624	12-16-1994	Edwards et al.	
	A65*	US-5,399,168	03-21-1995	Wadsworth et al.	
	A66*	US-5,401,255	03-28-1995	Sutherland et al.	
	A67*	US-5,405,340	04-11-1995	Fageol et al.	
	A68*	US-5,411,491	05-02-1995	Goldhardt et al.	
	A69*	US-5,454,784	10-03-1995	Atkinson et al.	
	A70*	US-5,469,805	11-28-1995	Gibbs et al.	
	A71*	US-5,470,305	11-28-1995	Arnett et al.	
	A72*	US-5,484,420	01-16-1996	Russo	
	A73*	US-5,542,923	08-06-1996	Ensminger et al.	
	A74*	US-5,554,136	09-10-1996	Luther	
	A75*	US-5,562,618	10-08-1996	Cai et al.	
	A76*	US-5,575,769	01-19-1996	Vaillancourt et al.	
	A77*	US-5,619,393	12-08-1992	Moorehead et al.	
	A78*	US-5,637,099	06-10-1997	Durdin et al.	
	A79*	US-5,667,500	09-19-1997	Palmer et al.	
	A80*	US-5,743,873	04-28-1998	Cai et al.	
	A81*	US-5,743,884	04-28-1998	Hasson et al.	
	A82*	US-5,743,894	04-28-1998	Swisher	
	A83	US-5,752,938	05-19-1998	Flatland et al.	

FOREIGN PATENT DOCUMENTS					
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	B19	WO-89/002764	04-06-1989	Heimhlicher Guenter	
	B20	WO-98/022178	05-28-1998	Nypro Inc.	
	B21	WO-00/006230	02-10-2000	McLaughlin, David L.	
	B22	WO-01/074434	10-11-2001	Bard Inc. CR	

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	A84*	US-5,803,078	09-08-1998	Brauner	
	A85*	US-5,807,349	09-15-1998	Person et al.	
	A86*	US-5,843,044	12-01-1998	Moorehead	
	A87*	US-5,853,397	12-29-1998	Shemesh et al.	
	A88*	US-5,865,308	02-02-1999	Qin et al.	
	A89*	US-5,944,698	08-31-1999	Fischer et al.	
	A90*	US-5,984,902	11-16-1999	Moorehead	
	A91*	US-6,033,393	03-07-2000	Balbierz et al.	
	A92*	US-6,045,734	04-04-2000	Luther et al.	
	A93*	US-6,050,934	04-18-2000	Mikhail et al.	
	A94*	US-6,062,244	05-16-2000	Arkans	
	A95*	US-6,092,551	07-25-2000	Bennett	
	A96*	US-6,120,483	09-19-2000	Davey et al.	
	A97*	US-6,227,200	05-08-2001	Crump et al.	
	A98*	US-6,270,489	08-07-2001	Wise et al.	
	A99*	US-6,364,861	04-02-2002	Feith et al.	
	A100*	US-6,364,867	04-02-2002	Wise et al.	
	A101*	US-6,375,637	04-23-2002	Campbell et al.	
	A102*	US-6,436,077	08-20-2002	Davey et al.	
	A103*	US-6,442,415	08-27-2002	Bis et al.	
	A104*	US-6,446,671	09-10-2002	Armenia et al.	
	A105*	US-6,508,791	01-21-2003	Guerrero	
	A106*	US-6,551,270	04-22-2003	Bimbo et al.	
	A107*	US-6,786,884	09-27-2004	DeCant et al.	
	A108*	US-6,953,450	10-11-2005	Baldwin et al.	
	A109*	US-6,874,999	04-05-2005	Dai et al.	
	A110*	US-6,994,314	02-07-2006	Garnier et al.	
	A111*	US-7,081,106	07-25-2006	Guo et al.	
	A112*	US-7,252,652	08-07-2007	Moorehead et al.	

FOREIGN PATENT DOCUMENTS						
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	A113*	US-7,291,133	11-06-2007	Kindler et al.	
	A114*	US-7,316,655	01-08-2008	Garibotto et al.	
	A115*	US-7,601,141	10-13-2009	Dikeman et al.	
	A116*	US-7,637,893	12-29-2009	Christensen et al.	
	A117*	US-7,758,541	07-20-2010	Wallace et al.	
	A118*	US-20010023333	09-20-2001	Wisse et al.	
	A119*	US-20010037079	11-01-2001	Burbank et al.	
	A120*	US-20020016584	02-07-2002	Wise et al.	
	A121*	US-20020165492	11-07-2002	Davey et al.	
	A122*	US-20020193752	12-19-2002	Lynn	
	A123*	US-20030122095	07-03-2003	Wilson et al.	
	A124*	US-20040034324	02-19-2004	Seese et al.	
	A125*	US-20040064128	04-01-2004	Rajman et al.	
	A126*	US-20040193119	09-30-2004	Canaud et al.	
	A127*	US-20040267185	12-30-2004	Weaver et al.	
	A128*	US-20050043703	02-24-2005	Nordgren	
	A129*	US-20050049555	03-03-2005	Moorehead et al.	
	A130*	US-20050149116	07-07-2005	Edwards et al.	
	A131*	US-20050171490	08-04-2005	Weaver et al.	
	A132*	US-20050171510	08-04-2005	DiCarlo et al.	
	A133*	US-20050283122	12-22-2005	Nordgren	
	A134*	US-20060129092	06-15-2006	Hanlon et al.	
	A135*	US-20060135949	06-22-2006	Rome et al.	
	A136*	US-20060149211	07-06-2006	Simpson et al.	
	A137*	US-20070161970	07-12-2007	Moorehead et al.	
	A138*	US-20070276313	11-29-2007	Moorehead et al.	
	A139*	US-20080108956	05-08-2008	Lynn et al.	
	A140*	US-20090292252	11-26-2009	Lareau et al.	

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NON PATENT LITERATURE DOCUMENTS				
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	C1	Asch, "Venous access: options, approaches and issues," Can Assoc. Radiol J., Vol. 52, No. 3 pp.153-164 (2001).		
	C2	Herts et al., "Power injection of contrast media using central venous catheters: feasibility, safety, and efficacy," AJR Am. J. Roentgenol., Vol. 176, No. 2, pp. 447-453 (2001).		
	C3	Roth et al., "Influence of radiographic contrast media viscosity to flow through coronary angiographic catheters," Cathet. Cardiovasc. Diagn., Vol. 22, No. 4, pp. 290-294 (1991).		
	C4	Carlson et al., "Safety considerations in the power injection of contrast media via central venous catheters during computerized tomographic examinations," Invest. Radiol., Vol 27, No. 5, p. 337-340 (1992).		
	C5	Kaste et al., "Safe use of power injectors with central and peripheral venous access devices for pediatric CT," Pediatr. Radiol., Vol. 26, No. 8, pp. 449-501 (1996).		
	C6	Herts et al., "Power injection of intravenous contrast material through central venous catheters for CT: in vitro evaluation," Radiology, Vol. 200, No. 3, pp. 731-735 (1996).		
	C7	Rivitz et al., "Power injection of peripherally inserted central catheters," J. Vasc. Interv. Radiol., Vol. 8, No. 5, pp. 857-863 (1997).		
	C8	Rogalla et al., "Safe and easy power injection of contrast material through a central line," Eur. Radiol., Vol. 8, No. 1, pp. 148-149 (1998).		
	C9	Williamson et al., "Assessing the adequacy of peripherally inserted central catheters for power injection of intravenous contrast agents for CT," J. Comput. Assist. Tomogr., Vol. 25, No. 6, pp. 932-937 (2001).		
	C10	Chahous et al., "Randomized comparison of coronary angiography using 4F catheters: 4F manual versus 'Acisted' power injection technique," Catheter Cardiovasc. Interv., Vol. 53, No. 2, pp. 221-224 (2001).		
	C11	Walsh et al., "Effect of contrast agent viscosity and injection flow velocity on bolus injection pressures for peripheral venous injection in first-pass myocardial perfusion studies," Technol. Health Care, Vol. 10, No. 1, pp. 57-63 (2002).		
	C12	Saito et al., "Diagnostic brachial coronary arteriography using a power-assisted injector and 4 French catheters with new shamps," J. Invasive Cardiol., Vol. 9, No. 7, pp. 461-468 (1997).		

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